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Flynn

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(54) **SOLENOIDAL SKIN VIBRATOR ENERGIZED
BY COMPLEX ELECTRIC WAVEFORMS**

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(51) **Int. Cl.⁷** **A61H 01/00**

(52) **U.S. Cl.** **601/80; 601/78**

(58) **Field of Search** **601/46, 67-73,
601/78-84**

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(57) **ABSTRACT**

A new skin vibrator converts simple or complex electrical waveforms into simple or complex mechanical waveforms or vibrations that are applied to the skin and underlying tissues for therapy or pleasure. The complex waveforms may be completely random in response to the output of a random electrical noise generator, or non-random but complex in response to music or speech. In effect, random acoustic vibrations or speech or musical vibrations are induced in the skin and underlying tissues. The vibrator comprises an oblong hollow body having a solenoidal motor mounted inside. The solenoid is partially damped at both extremes of its stroke to buffer the impact within the vibrator and thereby soften the vibration. Wires extend from the vibrator for connection with a signal generator, audio amplifier or other source of the electrical waveforms.

11 Claims, 3 Drawing Sheets

